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(12) **United States Patent**
Huberman(10) **Patent No.:** **US 9,511,070 B2**(45) **Date of Patent:** **Dec. 6, 2016**(54) **HETEROCYCLYL CARBOXAMIDES FOR TREATING VIRAL DISEASES**(71) Applicant: **NOVADRUG, LLC**, Chicago, IL (US)(72) Inventor: **Eliezer Huberman**, Chicago, IL (US)(73) Assignee: **NovaDrug, LLC**, Chicago, IL (US)

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CPC . A61K 31/45; A61K 31/454; A61K 31/4709

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See application file for complete search history.

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(57)

ABSTRACT

Methods, uses, medicaments, and unit doses for treating viral diseases are described herein. The methods, uses, medicaments, and unit doses include (a) substituted piperidine and piperazine carboxamides, or a pharmaceutically acceptable salt thereof and (b) one or more pharmaceutically acceptable carriers, excipients or diluents, or combinations thereof. Viral diseases include hepatitis C virus, HIV, BVDV, and Coronavirus infections.

13 Claims, 8 Drawing Sheets